# Schottky Barrier Rectifier multicomp





#### Features:

- Metal of silicon rectifier, majority carrier conduction
- Guard ring for transient protection
- Low power loss, high efficiency
- High current capability, low VF
- High surge capacity
- Plastic package has UL flammability classification 94V-0
- For use in low voltage, high frequency inverters, free wheeling, and polarity protection applications

## **Mechanical Data:**

Case : TO-220AB molded plastic Polarity : As marked on the body Weight : 0.08 ounces, 2.24 grams

Mounting Position : Any Reverse Voltage : 60 Volts Forward Current : 10 Amperes

## **Maximum Ratings and Electrical Characteristics:**

Rating at 25°C ambient temperature unless otherwise specified.

Single phase, half wave, 60Hz, resistive or inductive load.

For capacitive load, derate current by 20%.

Characteristics		Symbol	Values	Unit
Max. Recurrent Peak Reverse Voltage		VRRM	60	
Max. RMS Voltage		VRMS	42	V
Max. DC Blocking Voltage		VDC	60	
Max. Average Forward Rectified Current (See Fig.1)		l(AV)	10	
Peak Forward Surge Current  8.3ms Single Half Sine-Wave Irsm 12 Super Imposed on Rated Load (JEDEC Method)		120	A	
Peak Forward Voltage (Note1)	IF=5A @T <sub>J</sub> =25°C IF=5A @T <sub>J</sub> =125°C IF=10A @T <sub>J</sub> =25°C IF=10A @T <sub>J</sub> =125°C	VF	0.8 0.65 0.9 0.75	V
Max. DC Reverse Current at Rated DC Blocking Voltage at	TA = 25°C TA = 125°C	lr	0.1 15	mA
Typical Junction Capacitance (Note 2)		Cı	220	pF
Typical Thermal Resistance (Note 3)		Rejc	3	°C/W
Operating Temperature Range		TJ	-55 to +150	°C
Storage Temperature Range		Тsтg	-55 to +175	°C

#### Notes:

- 1. 300µs pulse width, 2% duty cycle.
- 2. Measured at 1.0MHz and applied reverse voltage of 4.0V DC.
- 3. Thermal resistance junction to case
- 4. The typical data above is for reference only

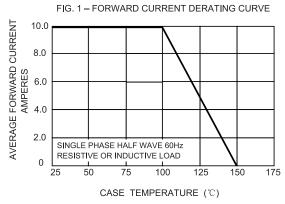
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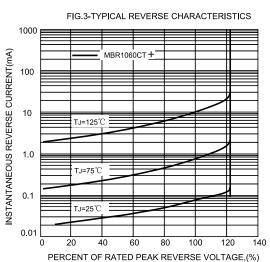


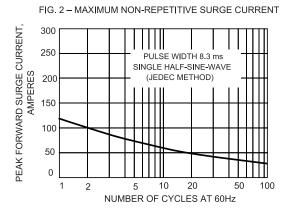
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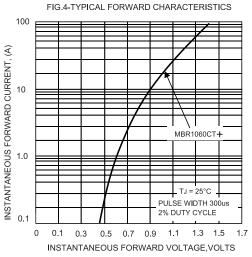


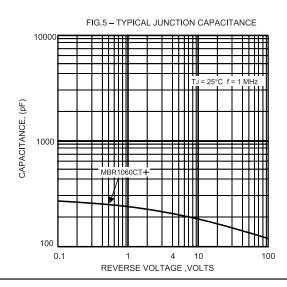
# **Ratings and Characteristic Curves**











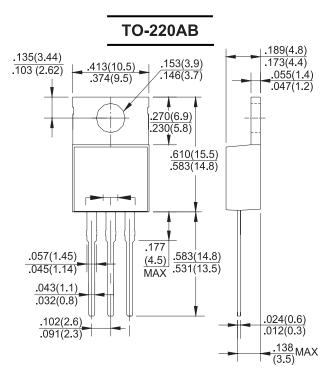
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#### **Dimensions:**



Dimensions: Inches (Millimetres)

## **Part Number Table**

Description	Part Number	
Schottky Barrier Rectifier	MBR1060CT+	

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